

a substrate having a surface;

a plurality of electrically conductive members disposed on said surface;

said electrically conductive members have an enlarged base, an elongated electrically conductive member in contact with said base and extending away from said base;

C1  
cont.  
a sheet of material having a plurality of openings extending from a first side to a second side of said sheet, said sheet being disposed for alignment with said plurality of electrically conductive members;

each of said plurality of openings being smaller than said base so that said sheet is disposed away from and not in contact with said surface;

said sheet is disposed over said plurality of electrically conductive members with each of said elongated electrically conductive member extending through said plurality of openings[.];

wherein said elongated electrically conductive member has a first end disposed in contact with said enlarged base and a second end disposed in contact with an enlarged tip;

said sheet is disposed between said enlarged base and said enlarged tip so that said first

side of said sheet is disposed against said enlarged base;

said enlarged tip is pressed against said second side of said sheet to have a stud shape  
so as to fixedly hold said sheet between said enlarged tip and said base.

3  
 36. (Amended) An apparatus for making electrical contact with a plurality of solder balls  
 on an integrated circuit device comprising:

a first fan out substrate having a first surface[.]; said first surface having a plurality of  
 contact locations[.]; a plurality of ball bonds attached to said plurality of contact  
 locations[.]; a plurality of short studs extending outward from said ball bonds, away from  
 said first surface on said fan out substrate[.];

an enlarged contact surface at an end of each of said studs;

said plurality of ball bonds and short studs are surrounded by a layer of polymer material  
having a first side and a second side;

said layer of polymer material has a plurality of openings through which said short studs  
extend, each of said opening is smaller than said ball bond so that said first side of said  
layer of polymer material is disposed against said ball bond and spaced away from said  
surface, said enlarged end of said stud is pressed against said second side so as to

*C2*  
*cancel* fixedly hold said layer of polymer material between said enlarged end and said ball bond.

*49*  
*cancel* 49 (Amended) A structure comprising:

a substrate having a surface;

a plurality of electrically conductive members disposed on said surface;

said electrically conductive members have an enlarged base, an elongated electrically conductive member in contact with said base and having an end extending away from said base;

said end being enlarged;

a sheet of material having a plurality of openings extending from a first side to a second side, said opening being positioned to align with said plurality of probe tips, said sheet is disposed over said plurality of probe tips, said elongated electrically conductive members being disposed in said opening[.];

each of said plurality of openings being smaller than said enlarged base so that said first side of said sheet is disposed against said enlarged base so that said sheet is disposed away from and not in contact with said surface;

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